

**Nama: Hilmi Hanif**  
**NIM: Ail.2021.13491**  
**Kelompok: 4211**

## **Basis Data**

### **DBMS: MySQL Workbench 8.0 CE**

1. create database pegawai;
2. use pegawai;
3. create table dept (  
deptno int unsigned,  
dname varchar(20) not null,  
loc varchar(20) not null,  
primary key(deptno)  
) engine = InnoDB;
4. insert into dept (deptno,dname,loc)  
values (10,'ACCOUNTING','NEW YORK'),  
(20,'RESEARCH','DALLAS'),  
(30,'SALES','CHICAGO'),  
(40,'OPERATIONS','BOSTON');
5. create table emp (  
empno int unsigned,  
ename varchar(20) not null,  
job enum ('PRESIDENT','MANAGER','ANALYST','SALESMAN','CLERK') not null,  
mgr int unsigned,  
hiredate char(10) not null,  
sal int unsigned not null,  
comm int unsigned default 0,  
deptno int unsigned,  
primary key(empno),  
constraint fk\_deptno  
foreign key (deptno) references dept (deptno)  
on update cascade  
) engine = InnoDB;

```

insert into emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)
value (7369,'SMITH','CLERK',7902,'1980-12-17',1000, default,20),
      (7499,'ALLEN','SALESMAN',7698,'1981-02-20',1600,300,30),
      (7521,'WARDS','SALESMAN',7698,'1981-02-22',1250,500 ,30),
      (7566,'JONES','MANAGER',7839,'1981-04-02',2975, default,20),
      (7654,'MARTIN','SALESMAN',7698,'1981-09-28',1250,1400,30),
      (7698,'BLAKE','MANAGER',7839,'1981-03-01',2850,default,30),
      (7782,'SCOTT','MANAGER',7839,'1981-06-09',2450,default ,10),
      (7788,'CLARK','ANALYST',7566,'1981-04-19',3000, default,20),
      (7839,'KING','PRESIDENT',null,'1981-10-17',5000,default,10),
      (7844,'TURNER','SALESMAN',7698,'1981-08-09',1500,default,30),
      (7876,'ADAMS','CLERK',7788,'1987-05-23',1100,default,20),
      (7900,'JAMES','CLERK',7698,'1981-12-03',950,default,30),
      (7902,'FORD','ANALYST',7566,'1981-12-03',3000,default,20),
      (7934,'SMITH','CLERK',7902,'1980-12-17',1000,default,10);

```

- 6. Perintah:**      delete from dept  
                          where deptno = 40;

Record **Terhapus** karena tidak ada data relasi pada table emp yang menggunakan deptno=40

- 7. Perintah:**      delete from dept  
                          where deptno = 30;

Record **Tidak Terhapus** karena ada data relasi pada emp yang menggunakan deptno=30

- 8. Perintah:**      update dept  
                          set deptno = 50  
                          where deptno = 30;

pada table dept, deptno=30 akan di update menjadi 50, maka data di table emp yang menggunakan relasi tersebut akan di update juga menjadi 50 juga, karena menggunakan perintah **on update cascade**.